



STIC Search Report

EIC 2600

STIC Database Tracking Number: 167855

TO: Young Y Lee
Location: KNX 06 A45
Art Unit : 2613
Wednesday, October 05, 2005

Case Serial Number: 10/054219

From: Paul Obiniyi
Location: EIC 2600
KNX 08 B55
Phone: 305-1836

paul.obiniyi@uspto.gov

Search Notes

Dear Examiner Lee,

Attached please find the results of your search. Please feel free to contact me if you have additional questions or would like a re-focus search. Thank you and have a great day.

Paul

2

RUSH SPE SIGNATURE _____

Access DB# 167858

SEARCH REQUEST FORM

Scientific and Technical Information Center

EIC 2600

Requester's Full Name Young Lee Examiner # 72741 Date 10/4/05
Art Unit 2613 Phone Number 2-7334 Serial Number 101054, 219
Office Location KNX 6A45 Format preferred (circle) PAPER EMAIL BOTH

If more than one search is submitted, please prioritize searches in order of need.
.....

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Let us know what you already have and so do not need. Include the keywords, synonyms and meaning of acronyms. Define all terms that may have a specific meaning. Please attach a copy of the background, abstract, claims and other pertinent information.

Please state how the terms or keyword strings should relate to one another.

Title of the Invention _____

Inventor(s)

Heath

Earliest Priority date to be used 8/10/01

- ① Lempel - Ziv - Jeff - Heath (LZJH)
② Huffman

STAFF USE ONLY

Searcher Paul Dobinyl

Phone 27734

Location KNX 08B55

Date picked up 10/05/05

Date completed 11/05/05

Search Prep/review 40

Online Time 150

TYPE of Search

Text L

Litigation _____

Other _____

Databases Searched

Dialog ✓

STN _____

QuestelOrbit _____

LEXIS/NEXIS _____

Courtlink _____

Other WWW, IEEE, ResearchIndex

? show files; ds; save temp; logoff hold
File 9:Business & Industry(R) Jul/1994-2005/Oct 03
(c) 2005 The Gale Group
File 15:ABI/Inform(R) 1971-2005/Oct 05
(c) 2005 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2005/Oct 04
(c) 2005 The Gale Group
File 20:Dialog Global Reporter 1997-2005/Oct 05
(c) 2005 Dialog
File 47:Gale Group Magazine DB(TM) 1959-2005/Oct 05
(c) 2005 The Gale group
File 75:TGG Management Contents(R) 86-2005/Sep W4
(c) 2005 The Gale Group
File 80:TGG Aerospace/Def.Mkts(R) 1982-2005/Oct 04
(c) 2005 The Gale Group
File 88:Gale Group Business A.R.T.S. 1976-2005/Oct 05
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File 98:General Sci Abs/Full-Text 1984-2004/Dec
(c) 2005 The HW Wilson Co.
File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media
File 141:Readers Guide 1983-2004/Dec
(c) 2005 The HW Wilson Co
File 148:Gale Group Trade & Industry DB 1976-2005/Oct 05
(c)2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2005/Oct 04
(c) 2005 The Gale Group
File 264:DIALOG Defense Newsletters 1989-2005/Oct 04
(c) 2005 Dialog
File 484:Periodical Abs Plustext 1986-2005/Oct W1
(c) 2005 ProQuest
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
(c) 2005 The HW Wilson Co
File 570:Gale Group MARS(R) 1984-2005/Oct 04
(c) 2005 The Gale Group
File 608:KR/T Bus.News. 1992-2005/Oct 05
(c)2005 Knight Ridder/Tribune Bus News
File 620:EIU:Viewswire 2005/Oct 04
(c) 2005 Economist Intelligence Unit
File 613:PR Newswire 1999-2005/Oct 05
(c) 2005 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Oct 05
(c) 2005 The Gale Group
File 623:Business Week 1985-2005/Sep 29
(c) 2005 The McGraw-Hill Companies Inc
File 624:McGraw-Hill Publications 1985-2005/Oct 04
(c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2005/Oct 04
(c) 2005 San Jose Mercury News
File 635:Business Dateline(R) 1985-2005/Oct 05
(c) 2005 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2005/Oct 04
(c) 2005 The Gale Group
File 647:CMP Computer Fulltext 1988-2005/Sep W3
(c) 2005 CMP Media, LLC
File 696:DIALOG Telecom. Newsletters 1995-2005/Oct 03
(c) 2005 Dialog
File 674:Computer News Fulltext 1989-2005/Oct W1

(c) 2005 IDG Communications
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 587:Jane's Defense&Aerospace 2005/Oct W1
(c) 2005 Jane's Information Group

Set	Items	Description
S1	3	LZ () 77 AND HUFFMAN

1/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

00755403 94-04795

Putting data on a diet

Weiss, Jeffrey; Schremp, Doug
IEEE Spectrum v30n8 PP: 36-39 Aug 1993
ISSN: 0018-9235 JRNL CODE: SPC

...ABSTRACT: method for lossless compression is run-length encoding. A more sophisticated compression algorithm is the **Huffman** coder, which tries to assign the most economical possible variable-length bit string to each symbol in an alphabet. Arithmetic codes were developed to overcome the fractional-bit deficiencies of **Huffman** codes. As good as they are, the **Huffman** and arithmetic models are less than efficient at modeling text. Far more effective are 2 simple string-matching techniques, known as **LZ - 77** and **LZ-78**. An area to which compression has a very large contribution to make...

1/3,K/2 (Item 1 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
(c) 2005 The Gale Group. All rts. reserv.

06828139 SUPPLIER NUMBER: 118957190

On the hardness of finding optimal multiple preset dictionaries. (Author Abstract)

Mitzenmacher, Michael
IEEE Transactions on Information Theory, 50, 7, 1536(4)
July, 2004
DOCUMENT TYPE: Author Abstract ISSN: 0018-9448 LANGUAGE: English
RECORD TYPE: Abstract

...AUTHOR ABSTRACT: simple compression problem is NP-hard: given a collection of documents, find the pair of **Huffman** dictionaries that minimizes the total compressed size of the collection, where the best dictionary from...

...each document. We also show the NP-hardness of finding optimal multiple preset dictionaries for **LZ ' 77** -based compression schemes. Our reductions make use of the catalog segmentation problem, a natural partitioning problem. Our results justify heuristic attacks used in practice.

Index Terms-- **Huffman** coding, **LZ ' 77** , NP-completeness, preset dictionaries, two-stage compression.

1/3,K/3 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2005 ProQuest. All rts. reserv.

06629187 SUPPLIER NUMBER: 764678221

On the hardness of finding optimal multiple preset dictionaries

Mitzenmacher, Michael
IEEE Transactions on Information Theory (EINT), v50 n7, p1536-1539
Jul 2004
ISSN: 0018-9448 JOURNAL CODE: EINT
DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Abstract

...ABSTRACT: simple compression problem is NP-hard: given a collection of documents, find the pair of **Huffman** dictionaries that minimizes the total compressed size of the collection, where the best dictionary from...

...each document. We also show the NP-hardness of finding optimal multiple preset dictionaries for **LZ ' 77** -based compression schemes. Our reductions make use of the catalog segmentation problem, a natural partitioning...
?

? show files; ds; save temp; logoff hold
 File 344:Chinese Patents Abs Aug 1985-2005/May
 (c) 2005 European Patent Office
 File 347:JAPIO Nov 1976-2005/Apr(Updated 050801)
 (c) 2005 JPO & JAPIO
 File 350:Derwent WPIX 1963-2005/UD,UM &UP=200563
 (c) 2005 Thomson Derwent
 File 371:French Patents 1961-2002/BOPI 200209
 (c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	1621	HUFFMAN
S2	1	LZJH OR LEMPEL()ZIV()JEFF()HEATH
S3	283	AU=(HEATH, R? OR HEATH R? OR HEATH J? OR HEATH J?)
S4	1	S1 AND S2
S5	1	S1 AND S3
S6	0	S5 NOT S4

4/3,K/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015368221 **Image available**
WPI Acc No: 2003-429159/200340
XRPX Acc No: N03-342606

Data encoding/decoding method involves applying Huffman coding
algorithm on compressed codes generated from input data using Lempel -
Ziv - Jeff - Heath data compression algorithm

Patent Assignee: HEATH R J (HEAT-I)

Inventor: HEATH R J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030031246	A1	20030213	US 2001311781	P	20010810	200340 B
			US 200154219	A	20011109	

Priority Applications (No Type Date): US 2001311781 P 20010810; US
200154219 A 20011109

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030031246	A1	16	H04B-001/66	Provisional application US 2001311781

Data encoding/decoding method involves applying Huffman coding
algorithm on compressed codes generated from input data using Lempel -
Ziv - Jeff - Heath data compression algorithm

Abstract (Basic):

... The compressed codes are generated from the input data to be
encoded, using a Lempel - Ziv - Jeff - Heath (LZJH) data
compression algorithm. A minimum redundancy coding algorithm such as
fixed or dynamic Huffman coding algorithm, is applied on the
compressed codes to generate compressed data.

... By using Lempel - Ziv - Jeff - Heath data compression
algorithm and Huffman coding algorithm, data compression efficiency
is improved...

...Title Terms: HUFFMAN ;

?

? show files; ds; save temp; logoff hold

File 9:Business & Industry(R) Jul/1994-2005/Oct 03
(c) 2005 The Gale Group

File 15:ABI/Inform(R) 1971-2005/Oct 05
(c) 2005 ProQuest Info&Learning

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File 47:Gale Group Magazine DB(TM) 1959-2005/Oct 05
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File 75:TGG Management Contents(R) 86-2005/Sep W4
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File 80:TGG Aerospace/Def.Mkts(R) 1982-2005/Oct 04
(c) 2005 The Gale Group

File 88:Gale Group Business A.R.T.S. 1976-2005/Oct 05
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File 98:General Sci Abs/Full-Text 1984-2004/Dec
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File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media

File 141:Readers Guide 1983-2004/Dec
(c) 2005 The HW Wilson Co

File 148:Gale Group Trade & Industry DB 1976-2005/Oct 05
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File 160:Gale Group PROMT(R) 1972-1989
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File 275:Gale Group Computer DB(TM) 1983-2005/Oct 04
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File 570:Gale Group MARS(R) 1984-2005/Oct 04
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File 608:KR/T Bus.News. 1992-2005/Oct 05
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File 620:EIU:Viewswire 2005/Oct 04
(c) 2005 Economist Intelligence Unit

File 613:PR Newswire 1999-2005/Oct 05
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File 621:Gale Group New Prod.Annou.(R) 1985-2005/Oct 05
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File 623:Business Week 1985-2005/Sep 29
(c) 2005 The McGraw-Hill Companies Inc

File 624:McGraw-Hill Publications 1985-2005/Oct 04
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File 634:San Jose Mercury Jun 1985-2005/Oct 04
(c) 2005 San Jose Mercury News

File 635:Business Dateline(R) 1985-2005/Oct 05
(c) 2005 ProQuest Info&Learning

File 636:Gale Group Newsletter DB(TM) 1987-2005/Oct 04
(c) 2005 The Gale Group

File 647:CMP Computer Fulltext 1988-2005/Sep W3
(c) 2005 CMP Media, LLC

File 696:DIALOG Telecom. Newsletters 1995-2005/Oct 03
(c) 2005 Dialog

File 674:Computer News Fulltext 1989-2005/Oct W1

(c) 2005 IDG Communications
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 587:Jane`s Defense&Aerospace 2005/Oct W1
(c) 2005 Jane`s Information Group

Set	Items	Description
S1	21187	HUFFMAN
S2	9	LZJH OR LEMPEL()ZIV()JEFF()HEATH
S3	465	AU=(HEATH, R? OR HEATH R? OR HEATH J? OR HEATH J?)

2/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

07584234 Supplier Number: 63544738 (USE FORMAT 7 FOR FULLTEXT)
ITU gives modem plan green light. (Brief Article)
Electronics Times, p3
July 10, 2000
Language: English Record Type: Fulltext
Article Type: Brief Article
Document Type: Magazine/Journal; Trade
Word Count: 67

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...procedures for modem and connection fault-finding. The data compression recommendation is based on Hughes' **LZJH** compression algorithm and gives an improvement in compression of more than 25% over the existing...

2/3,K/2 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 Dialog. All rts. reserv.

12395175 (USE FORMAT 7 OR 9 FOR FULLTEXT)
ITU: Voiceband modem standards take another significant step forward
M2 PRESSWIRE
July 04, 2000
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 547

(USE FORMAT 7 OR 9 FOR FULLTEXT)
... facilitating modem and connection fault-finding..
The new data compression Recommendation is based on the **LZJH** compression algorithm developed by US-based Hughes Network Systems and gives an improvement in compression...

2/3,K/3 (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 Dialog. All rts. reserv.

12394547 (USE FORMAT 7 OR 9 FOR FULLTEXT)
ITU: Voiceband modem standards take another significant step forward
M2 PRESSWIRE
July 07, 2000
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 546

(USE FORMAT 7 OR 9 FOR FULLTEXT)
... facilitating modem and connection fault-finding..
The new data compression Recommendation is based on the **LZJH** compression algorithm developed by US-based Hughes Network Systems and gives an improvement in compression...

2/3,K/4 (Item 1 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2005 The Gale group. All rts. reserv.

05851057 SUPPLIER NUMBER: 63648834 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Pings&Packets - Searching the industry for technical connections and
returning analysis in byte-sized packages.(News Briefs)**

MacKenna, John
eWeek, 87

July 24, 2000

LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 755 LINE COUNT: 00063

... rates of between 150K bps and 200K bps) would result from use of
the new **LZJH** , or **Lempel - Ziv - Jeff - Heath** , compression algorithm,
which generates a 25 percent greater compression ratio than the current
standard. Faster...

2/3,K/5 (Item 1 from file: 112)
DIALOG(R)File 112:UBM Industry News
(c) 2004 United Business Media. All rts. reserv.

01265215 (USE FORMAT 7 OR 9 FOR FULLTEXT)
ITU gives modem plan green light
Electronics Times , p 3
July 10, 2000
LANGUAGE: English RECORD TYPE: Fulltext DOC. TYPE: Journal
WORD COUNT: 00000066

(USE FORMAT 7 OR 9 FOR FULLTEXT)
TEXT: ...procedures for modem and connection fault-finding. The data
compression recommendation is based on Hughes' **LZJH** compression
algorithm and gives an improvement in compression of more than 25% over
the existing...

2/3,K/6 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

12404266 SUPPLIER NUMBER: 63648834 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Pings&Packets - Searching the industry for technical connections and
returning analysis in byte-sized packages.(News Briefs)**

MacKenna, John
eWeek, 87

July 24, 2000

LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 755 LINE COUNT: 00063

... rates of between 150K bps and 200K bps) would result from use of
the new **LZJH** , or **Lempel - Ziv - Jeff - Heath** , compression algorithm,
which generates a 25 percent greater compression ratio than the current
standard. Faster...

2/3,K/7 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

02418393 SUPPLIER NUMBER: 63648834 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Pings&Packets - Searching the industry for technical connections and
returning analysis in byte-sized packages.(News Briefs)**

MacKenna, John

eWeek, 87

July 24, 2000

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 755 LINE COUNT: 00063

... rates of between 150K bps and 200K bps) would result from use of
the new **LZJH** , or **Lempel - Ziv - Jeff - Heath** , compression algorithm,
which generates a 25 percent greater compression ratio than the current
standard. Faster...

2/3,K/8 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

04765642 Supplier Number: 64769676 (USE FORMAT 7 FOR FULLTEXT)

ITU AGREES TO THREE NEW STANDARDS FOR VOICEBAND MODEMS.

Online Newsletter, pITEM0024300A

Sept, 2000

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 409

... facilitating modem and connection fault-finding. The new data
compression Recommendation is based on the **LZJH** compression algorithm
developed by U.S.-based Hughes Network Systems and gives an improvement of
...

2/3,K/9 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

04711062 Supplier Number: 63136329 (USE FORMAT 7 FOR FULLTEXT)

Voiceband modem standards take another significant step forward.

M2 Presswire, pNA

July 4, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 593

... facilitating modem and connection fault-finding..

The new data compression Recommendation is based on the **LZJH**
compression algorithm developed by US-based Hughes Network Systems and
gives an improvement in compression...

?

? show files; ds; save temp; logoff hold
File 348:EUROPEAN PATENTS 1978-2005/Sep W04
 (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050929,UT=20050922
 (c) 2005 WIPO/Univentio

Set	Items	Description
S1	4137	HUFFMAN
S2	4	LZJH OR LEMPEL()ZIV()JEFF()HEATH
S3	180	AU=(HEATH, R? OR HEATH R? OR HEATH J? OR HEATH J?)
S4	0	S1 AND S2
S5	0	S2 AND S3
S6	0	S1 AND S3

2/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01694337

Segmented layered image system
Geschichtetes Bildsegmentierungssystem
Systeme de segmentation d'images en couches
PATENT ASSIGNEE:

MICROSOFT CORPORATION, (749866), One Microsoft Way, Redmond, WA 98052,
(US), (Applicant designated States: all)

INVENTOR:

Simard, Patrice Y, 13126 NE 31st Place, Bellevue, WA 98005, (US)
Renshaw, Erin L, 13327 NE 135th street, Kirkland, WA 98034, (US)
Rinker, James Russel, 13615 NE136th Place, Kirkland, WA 98034, (US)
Malvar, Henrique S, 2302 233rd Avenue, Sammamish, WA 98074, (US)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1388815 A2 040211 (Basic)

APPLICATION (CC, No, Date): EP 2003005430 030313;

PRIORITY (CC, No, Date): US 133558 020425; US 133842 020425; US 133939
020425; US 180771 020626; US 180649 020626; US 180169 020626

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO

INTERNATIONAL PATENT CLASS: G06T-005/00

ABSTRACT WORD COUNT: 157

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200407	2213
SPEC A	(English)	200407	18581
Total word count - document A			20794
Total word count - document B			0
Total word count - documents A + B			20794

...SPECIFICATION 42bis, and 6:1 for newer version V.44 2000, which is based on the **Lempel - Ziv - Jeff - Heath (LZJH)** compression algorithm. It is to be appreciated that other suitable compression methods or schemes can...42bis, and 6:1 for newer version V.44 2000, which is based on the **Lempel - Ziv - Jeff - Heath (LZJH)** compression algorithm. Other compression methods or schemes can be employed to encode the mask and...

2/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01694336

Clustering of a document image
Gruppieren eines Dokumentbildes
Regroupement d'une image de document
PATENT ASSIGNEE:

MICROSOFT CORPORATION, (749866), One Microsoft Way, Redmond, WA 98052,
(US), (Applicant designated States: all)

INVENTOR:

Simard, Patrice Y., 13126 NE 31st Place, Bellevue, Washington 98005, (US)
Malvar, Henrique S., 2302 233rd Avenue NE, Sammamish, Washington 98074,
(US)

Renshaw, Erin L., 13327 NE 135th Street, Kirkland, Washington 98034, (US)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1388814 A2 040211 (Basic)

APPLICATION (CC, No, Date): EP 2003005429 030313;

PRIORITY (CC, No, Date): US 133558 020425

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO

INTERNATIONAL PATENT CLASS: G06T-005/00

ABSTRACT WORD COUNT: 151

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200407	1068
SPEC A	(English)	200407	12456
Total word count - document A			13524
Total word count - document B			0
Total word count - documents A + B			13524

...SPECIFICATION 42bis, and 6:1 for newer version V.44 2000, which is based
on the **Lempel - Ziv - Jeff - Heath** (**LZJH**) compression algorithm.

The foreground encoder 1008 receives the foreground image and encodes
the foreground image...

2/3,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

01674976

Protocol message compression in a wireless communications system

Kompression von Protokollnachrichten in einem Mobilfunksystem

**Compression d'un message de protocole dans un systeme de communication sans
fil**

PATENT ASSIGNEE:

LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill,
New Jersey 07974-0636, (US), (Applicant designated States: all)

INVENTOR:

Mooi Choo Chuah, 1 Skylark Court, Marlboro, New Jersey 07746, (US)

Tingfang Ji, 163 Walnut Court, Highland Park, New Jersey 08904, (US)

Subhasis Laha, 1285 Dunbarton Drive, Aurora, Illinois 60504, (US)

LEGAL REPRESENTATIVE:

Watts, Christopher Malcolm Kelway, Dr. et al (37391), Lucent Technologies
(UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 0TU, (GB)

PATENT (CC, No, Kind, Date): EP 1376878 A1 040102 (Basic)

APPLICATION (CC, No, Date): EP 2003253193 030522;

PRIORITY (CC, No, Date): US 172504 020617

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: H03M-007/30; H04L-029/06

ABSTRACT WORD COUNT: 190

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200401	359
SPEC A	(English)	200401	4703
Total word count - document A			5062
Total word count - document B			0
Total word count - documents A + B			5062

...SPECIFICATION sent and received messages can be used for the compression process.

A second solution uses **LZJH** (**Lempel - Ziv - Jeff - Heath**) as the compression algorithm. This second solution uses preloaded dictionary and a multi-packet mode, where the dictionary is updated using previous messages, and then using the **LZJH** compression algorithm. This second solution can reduce the first message by a ratio of 2...

2/3,K/4 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2005 WIPO/Univentio. All rts. reserv.

01244459 **Image available**

SECURE AND PERSONALISED DISTRIBUTION OF AUDIOVISUAL FLOWS BY MEANS OF A HYBRID UNICAST/MULTICAST SYSTEM

DIFFUSION SECURISEE ET PERSONNALISEE DE FLUX AUDIOVISUELS PAR UN SYSTEME HYBRIDE UNICAST/MULTICAST

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200553299 A2 20050609 (WO 0553299)

Application: WO 2004FR50613 20041124 (PCT/WO FR04050613)

Priority Application: FR 200350895 20031124

Designated States:

(All protection types applied unless otherwise stated - for applications 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LU MC NL PL PT
RO SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: French
Filing Language: French
Fulltext Word Count: 5331

Fulltext Availability:
Detailed Description

Detailed Description

... type LZ

(Lempel-Ziv), par exemple LZW (une variante de LZ par Terry
Welch's),, **LZJH** (**Lempel - Ziv - Jeff - Heath** ou v.44 par ITU-T),
Des renouvellements periodiques des cles de Session
sont effectues...

?

? show files; ds; save temp; logoff hold

File 2:INSPEC 1898-2005/Sep W4
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File 6:NTIS 1964-2005/Sep W4
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File 65:Inside Conferences 1993-2005/Oct W1
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File 92:IHS Intl.Stds.& Specs. 1999/Nov
(c) 1999 Information Handling Services

File 94:JICST-EPlus 1985-2005/Aug W1
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File 144:Pascal 1973-2005/Sep W4
(c) 2005 INIST/CNRS

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group

File 603:Newspaper Abstracts 1984-1988
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File 483:Newspaper Abs Daily 1986-2005/Oct 03
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File 248:PIRA 1975-2005/Sep W3
(c) 2005 Pira International

Set	Items	Description
S1	6147	HUFFMAN
S2	2	LZJH OR LEMPEL()ZIV()JEFF()HEATH
S3	3466	AU=(HEATH, R? OR HEATH R? OR HEATH J? OR HEATH J?)
S4	0	S1 AND S2
S5	2	S1 AND S3
S6	2	S5 NOT S2

6/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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09486451 INSPEC Abstract Number: B2005-08-6135C-165

Title: A joint source-channel distortion model for JPEG compressed images

Author(s): Sabir, M.F.; Sheikh, H.R.; **Heath, R.W.** ; Bovik, A.C.

Author Affiliation: Dept. of Electr. & Comput. Eng., Texas Univ., Austin; TX, USA

Conference Title: 2004 International Conference on Image Processing (ICIP) (IEEE Cat. No.04CH37580) Part Vol. 5 p.3249-52 Vol. 5

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2004 Country of Publication: USA 5 vol. (xlii+3550)

pp.

ISBN: 0 7803 8554 3 Material Identity Number: XX-2005-00398

U.S. Copyright Clearance Center Code: 0-7803-8554-3/04/\$20.00

Conference Title: 2004 International Conference on Image Processing (ICIP)

Conference Date: 24-27 Oct. 2004 Conference Location: Singapore

Language: English

Subfile: B

Copyright 2005, IEE

Author(s): Sabir, M.F.; Sheikh, H.R.; **Heath, R.W.** ; Bovik, A.C.

...Abstract: compressed images due to both quantization and channel bit errors. Important compression techniques such as **Huffman** coding, DPCM coding, and run-length coding are included in the model. Examples show that ...

...Descriptors: **Huffman** codes

...Identifiers: **Huffman** coding

6/3,K/2 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

07467302 E.I. No: EIP05269177689

Title: A joint source-channel distortion model for JPEG compressed images

Author: Sabir, M. Farooq; Sheikh, Hamid R.; **Heath, Robert W.** ; Bovik, Alan C.

Corporate Source: Department of Electrical and Computer Engineering University of Texas at Austin, Austin, TX 78712-1084, United States

Conference Title: 2004 International Conference on Image Processing, ICIP 2004

Conference Location: Singapore Conference Date: 20041018-20041021

E.I. Conference No.: 65024

Source: Proceedings - International Conference on Image Processing, ICIP 2004 International Conference on Image Processing, ICIP 2004 v 2 2004. (IEEE cat n 04CH37580)

Publication Year: 2004

ISSN: 1522-4880

Language: English

Author: Sabir, M. Farooq; Sheikh, Hamid R.; **Heath, Robert W.** ; Bovik, Alan C.

...Abstract: compressed images due to both quantization and channel bit errors. Important compression techniques such as **Huffman** coding, DPCM coding, and run-length coding are included in the model. Examples show

2/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

07925983 INSPEC Abstract Number: B2001-06-6140-122

Title: New algorithm for data compression

Author(s): Heath, J.

Journal: Elektronik vol.50, no.5 p.66-73

Publisher: WEKA-Fachzeitschriften,

Publication Date: 6 March 2001 Country of Publication: Germany

CODEN: EKRKAR ISSN: 0013-5658

SICI: 0013-5658(20010306)50:5L:66:ADC;1-M

Material Identity Number: E071-2001-006

Language: German

Subfile: B

Copyright 2001, IEE

Abstract: The author describes the **LZjH** (**Lempel - Ziv - jeff - Heath**) data compression algorithm per ITU recommendation V.44. In this system, a tree structure is...

...a compressed data string is shown. This is stated to be scalable. Use of the **LZjH** algorithm in packet networks is explained.

...Identifiers: **LZjH** algorithm

2/3,K/2 (Item 1 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

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01491399 20010303216

Neuer Algorithmus fuer die Datenkompression. Die Grundlage der ITU-T-Empfehlung V.44

Heath, J

Hughes Network Syst., San Diego, USA

Elektronik, Poing, v50, n5, pp66-69,72-73, 2001

Document type: journal article Language: German

Record type: Abstract

ISSN: 0013-5658

ABSTRACT:

...als Symbole codiert werden, verwendet der LZ78-Algorithmus eine Tabelle mit Baumstruktur. Der neue Algorithmus **LZjH** (**Lempel - Ziv - jeff - Heath**) ist quasi eine Kombination aus beiden Algorithmen, wobei die History kein bewegliches Fenster darstellt, sondern...

...wird. Obwohl die Richtlinie V.44 in erster Linie fuer Modems ausgerichtet ist, kann der **LZjH** -Algorithmus, urspruenglich fuer ein Paket-Netzwerk entwickelt, praktisch fuer jede Art der Datenkommunikation eingesetzt werden...

?

? show files; ds; save temp; logoff hold
File 348:EUROPEAN PATENTS 1978-2005/Sep W04
 (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050929,UT=20050922
 (c) 2005 WIPO/Univentio

Set	Items	Description
S1	2	LZ()77 AND HUFFMAN

1/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01591647

ENCODING APPARATUS AND METHOD; DECODING APPARATUS AND METHOD AND RECORDING
MEDIUM RECORDING APPARATUS AND METHOD
CODIERUNGSVORRICHTUNG UND VERFAHREN, DECODIERUNGSVORRICHTUNG UND VERFAHREN
UND AUFZEICHNUNGSMEDIUM, AUFZEICHNUNGSVORRICHTUNG UND VERFAHREN
APPAREIL ET PROCEDE DE CODAGE, APPAREIL ET PROCEDE DE DECODAGE ET APPAREIL
ET PROCEDE D'ENREGISTREMENT DE SUPPORT D'ENREGISTREMENT

PATENT ASSIGNEE:

Sony Corporation, (214028), 7-35, Kitashinagawa 6-chome, Shinagawa-ku,
Tokyo 141-0001, (JP), (Applicant designated States: all)

INVENTOR:

INOKUCHI, Tatsuya, SONY CORPORATION, 7-35, Kitashinagawa 6-chome,
Shinagawa-ku, Tokyo 141-0001, (JP)

LEGAL REPRESENTATIVE:

Nicholls, Michael John (61941), J.A. KEMP & CO. 14, South Square Gray's
Inn, London WC1R 5JJ, (GB)

PATENT (CC, No, Kind, Date): EP 1437713 A1 040714 (Basic)
WO 2003032296 030417

APPLICATION (CC, No, Date): EP 2002777800 020930; WO 2002JP10146 020930
PRIORITY (CC, No, Date): JP 2001307548 011003

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G10L-019/00; H04S-001/00; H04H-005/00

ABSTRACT WORD COUNT: 88

NOTE:

Figure number on first page: 001

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200429	3047
SPEC A	(English)	200429	9261
Total word count - document A			12308
Total word count - document B			0
Total word count - documents A + B			12308

...SPECIFICATION such as music data should be effectively compressed with a
reversible code. As irreversible codes, **Huffman** code, arithmetic code,
moving **Huffman** code, universal codes (LZ (Lemple Ziv) 77, LZ SS, LZ 78,
and LZ W), and...

...become random numbers and encoded with a reversible code.

Reversible encoding is performed with a **Huffman** code. A pre-process
is performed with an LZ code.

With a reversible code, data...

...correlation" and "time base correlation" can be accomplished by a simple
arithmetic device. In addition, **Huffman** code encoding can be easily
performed. Thus, both an encoding process and an decoding process...

...the present invention; Fig. 4 is a schematic diagram for explaining an
encoding portion using **LZ 77** ; Fig. 5 is a schematic diagram for
explaining the encoding portion of the reversible code...right channels

In the reversibly encoding, a **Huffman** code is used. As a pre-process, an LZ code is used.

With a reversible...

...and "time base correlation" can be structured with a simple arithmetic device. In addition, since **Huffman** code encoding can be easily performed, the encoding process and the decoding process can be performed...

1/3,K/2 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01258409 **Image available**

RAPIDLY QUERYABLE DATA COMPRESSION FORMAT FOR XML FILES

FORMAT DE COMPRESSION DE DONNEES DE CONSULTATION RAPIDE POUR FICHIERS XML

Patent Applicant/Assignee:

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Eindhoven, NL, NL (Residence), NL (Nationality), (For all designated
states except: US)

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, (Designated only for: US)

Legal Representative:

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Philips Electronics China, 21/F Kerry, Office Building, 218 Tian Mu Xi
Lu Road, Shanghai 200070, CN,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200567153 A1 20050721 (WO 0567153)
Application: WO 2004IB52842 20041217 (PCT/WO IB04052842)
Priority Application: CN 200310124520 20031230

Designated States:

(All protection types applied unless otherwise stated - for applications
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU MC NL PL
PT RO SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 6893

Fulltext Availability:

Detailed Description

English Abstract

...useless characters such as tabulators and white spaces are removed,
indicating data marks are inserted, LZ - 77 compression is applied, and
finally the data are **Huffman** -encoded and packed in data blocks. The
indicating marks are used to search in the...

French Abstract

...tabulateurs et les blancs sont enlevés ; des marques de données indicatrices sont insérées ; la compression **LZ - 77** est appliquée et finalement les données sont codées **Huffman** et empaquetées dans des blocs de données. Les marques d'indication sont utilisées pour rechercher ...

Detailed Description

... g. the best known zip (.zip files) and gzip (.gz files). It is based on **Huffman** , LZ77 or both.

In the prior art, a compression device compresses the XML data and...

...structural diagram of a compressor in the prior art.

Compressor 100 comprises LZ77 encoder 102, **Huffman** encoder 104 and block packer 106. Compressor 100 compresses the XML data on the basis...

...the space from the beginning of the sequence in the bytes to the current byte.

Huffman encoder 104 performs **Huffman** -encoding to the codewords and literals, outputs a sequence of codes of different lengths and generates a **Huffman** list.

Block packer 106 obtains a **Huffman** list from **Huffman** encoder 104, packing the data into blocks, each of which could use different **Huffman** lists

or even does not need LZ77-encoding and **Huffman** -encoding at all. Here the packing has three possibilities: bypass compressing, using default **Huffman** list and using conventional **Huffman** list. The three possibilities are based on actual compression ratio and average amount of information...

...the compressed XML data, obtaining the XML data. Decompressor 200 comprises block header decoder 202, **Huffman** decoder 204 and LZ77 decoder 206.

Block header decoder 202 decodes the compressed XML data, obtaining a **Huffman** list and codes and/or literals of different lengths.

Huffman decoder 204 decodes the compressed XML data again, obtaining codewords and literals, and in the...

...an embodiment of the present invention. The compressor 100 comprises a LZ77 encoder 102, a **Huffman** encoder 104, a block packer 106, and an indicating data block inserting device 302. LZ77...

...data, and it may also act as a receiving device for receiving the XML data. **Huffman** encoder 104 performs **Huffman** -encoding to the LZ77-encoded XML data, and provides **Huffman** list at the same time. LZ77 encoder 102 and **Huffman** encoder 104 together could form an encoding device for encoding the XML data.

? show files; ds; save temp; logoff hold

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File 8:Ei Compendex(R) 1970-2005/Sep W4
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File 35:Dissertation Abs Online 1861-2005/Sep
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File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Aug
(c) 2005 The HW Wilson Co.

File 144:Pascal 1973-2005/Sep W4
(c) 2005 INIST/CNRS

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

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File 248:PIRA 1975-2005/Sep W3
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Set	Items	Description
S1	4	LZ()77 AND HUFFMAN
S2	1	RD (unique items)

2/3,K/1 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

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09011515 INSPEC Abstract Number: B2004-08-6120B-059, C2004-08-7240-013

Title: On the hardness of finding optimal multiple preset dictionaries

Author(s): Mitzenmacher, M.

Author Affiliation: Div. of Eng. & Appl. Sci., Harvard Univ., Cambridge, MA, USA

Journal: IEEE Transactions on Information Theory vol.50, no.7 p. 1536-9

Publisher: IEEE,

Publication Date: July 2004 Country of Publication: USA

CODEN: IETTAW ISSN: 0018-9448

SICI: 0018-9448(200407)50:7L:1536:HFOM;1-T

Material Identity Number: I044-2004-008

U.S. Copyright Clearance Center Code: 0018-9448/04/\$20.00

Language: English

Subfile: B C

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...Abstract: simple compression problem is NP-hard: given a collection of documents, find the pair of **Huffman** dictionaries that minimizes the total compressed size of the collection, where the best dictionary from...

... each document. We also show the NP-hardness of finding optimal multiple preset dictionaries for LZ '77 -based compression schemes. Our reductions make use of the catalog segmentation problem, a natural partitioning...

...Descriptors: **Huffman** codes

...Identifiers: LZ '77 -based compression schemes...

... **Huffman** coding

?